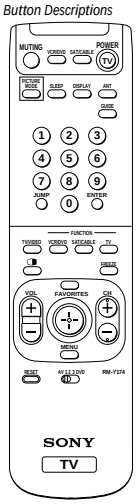
Using the Remote Control

The following table describes the buttons on the remote control that are for more advanced functions.

Main Power button must be turned ON to activate the Remote Control.

Button Descriptions

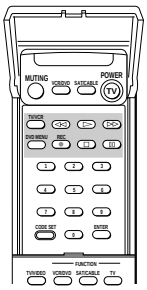


Outside Panel

Button	Description
MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
VCR/DVD (POWER)	Turns the DVD player, MDP player, or VTR (VCR) on and off.
SAT/CABLE (POWER)	Turns the satellite receiver or cable box on and off.
TV (POWER)	Turns the TV on and off.
PICTURE MODE	Press repeatedly to step through the available video picture modes: Vivid, Standard, Pro, Movie. Also available in the Video menu. For details, see "Selecting Video Options" on page 26.
SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the TV to remain on before shutting off automatically. Cancel by pressing until SLEEP OFF appears. While Sleep feature is set, press once to view remaining time
DISPLAY	Press once to display the current time and channel label (if set) and channel number. Press again to turn Display off. See page 34 for details on setting the time.
ANT	Changes the VHF/UHF input to the AUX input.
GUIDE	Displays the program guide of your satellite antenna.
0 – 9 and ENTER	Press 0 – 9 to select a channel, the channel changes after 2 seconds. Press ENTER for immediate selection.
JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
TV/VIDEO	Cycles through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5, VIDEO 6.
VCR/DVD (FUNCTION)	Activates the remote control for use with a DVD player, MDP, or VTR (VCR).
SAT/CABLE (FUNCTION)	Activates the remote control for use with a satellite receiver or cable box.
TV (FUNCTION)	Activates the remote control for use with the TV.

To scan rapidly through the channels, press and hold down the CH+ or CH- button.

Button	Description
	Turns on/off Twin Mode. For details, see "Using Twin View" on page 21.
FREEZE	Freezes the window picture. Press again to restore the picture.
VOL +/-	Adjusts the volume.
FAVORITES	Displays the Favorite Channels list. For details, see "Using Favorite Channels" on page 20.
CH +/-	Scan through channels.
	Joystick allows for movement of the on-screen cursor. Pressing down on the center of the joystick selects the item.
MENU	Press to display the TV menu. Press again to exit from the menus.
RESET	Resets the TV to the factory default settings for the Video and Audio menus. (Clears setting on Channel and Timer)
AV 1 2 3 DVD	Use to switch control for connected video equipment. You can program one video source for each switch position (see page 42).



Inside Panel

TV/VCR	Changes the VHF/UHF output of the VCR.
◀◀	Rewind
▶	Play
▶▶	Fast-forward
DVD MENU	Displays the DVD menu.
REC	Record
■	Displays the DVD menu.
❚❚	▶▶ or ◀◀ during playback (release to resume normal playback)
0 – 9 and ENTER	Press 0 – 9 to select a VCR channel, the channel changes after 2 seconds. Press ENTER for immediate selection.
CODE SET	Used for programming the remote control to operate non-Sony video equipment. For details, see "Programming the Remote Control" on page 42.

Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.

Sony Equipment	Switch Position on Remote Control	Programmable Code Number
Beta, ED Beta VCRs	VTR1	303
8 mm VCR	VTR2	302
VHS VCR	VTR3	301
DVD Player	DVD/MDP	751

If you have video equipment other than Sony brand that you want to control with the TV's remote control, use the following procedures to program the remote control.

The equipment must have infrared (IR) remote capability in order to be used with the remote control.

1. Turn to "Programmable Codes" on page 43, and find the three-digit code number for your equipment. If more than one code number is listed, use the number listed first to complete the following procedure.

   You must perform step 3 within 10 seconds of step 2, or you must start again from step 2.

2. Press CODE SET.
3. Move the slide switch to the desired input.
4. Enter the three-digit code number.
5. Press ENTER.

To check if the code number works, after step 5 aim the TV's remote control at the component and press the POWER button that corresponds with that component. If it responds, you're done. If not, try using the other codes listed for your component.

Tips

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries to replace them, the code numbers may revert to the factory setting and must be reset.

Programmable Codes

VCRs

Manufacturer	Code
Sony	301
Admiral (M. Ward)	327
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305,338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314. 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Laserdisc Players

Manufacturer	Code
Panasonic	704, 710
Pioneer	702

DVD Players

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Cable Boxes

Manufacturer	Code
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Satellite Receivers

Manufacturer	Code
Sony	801
General Electric	802
Hitachi	805
Hughes	804
Panasonic	803
RCA/PROSCAN	802, 808
Toshiba	806, 807

Operating a VCR

To Do This ...	Press
Turn on / off	VTR/DVD (POWER)
Change channels	CH +/-
Record	► and REC simultaneously.
Play	►
Stop	■
Fast forward	►►
Rewind the tape	◄◄
Pause	❚❚ (press again to resume normal playback)
Search the picture forward or backward	►► or ◄◄ during playback (release to resume normal playback)
Change input mode	TV/VCR

Operating an MDP (Laserdisc Player)

To Do This ...	Press
Turn on / off	VCR/DVD (POWER)
Play	►
Stop	■
Pause	❚❚ (press again to resume normal playback)
Search the picture forward or backward	►► or ◄◄ during playback (release to resume normal playback)
Search a chapter forward or backward	CH +/-

Operating a Satellite Receiver

To Do This ...	Press
Turn on / off	SAT/CABLE (POWER)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display DBS guide	GUIDE
Display DBS menu	MENU
Move highlight (cursor)	Joystick or arrows
Select item	✚ button

Operating a DVD Player

To Do This ...	Press
Turn on / off	VTR/DVD (POWER)
Play	►
Stop	■
Pause	❚❚ (press again to resume normal playback)
Step through different tracks of an audio disc	►► to step forward or ◄◄ to step backward
Step through different chapters of a video disc	CH+ to step forward or CH- to step backward
Display the DVD menu	DVD MENU
Select tracks directly	0-9 buttons
Display the menu (Setup)	MENU

Operating a Cable Box

To Do This ...	Press
Turn on / off	SAT/CABLE (POWER)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP

Troubleshooting

Problem	Possible Remedies
No picture (screen not lit), no sound	❑ If your TV does not turn on, and a red light keeps flashing, your TV may need service. Call your local Sony Service Center. ❑ Make sure the power cord is plugged in. ❑ Push the power button on the front of the TV. ❑ Check to see if the TV / VIDEO setting is correct: when watching TV, set to TV, and when watching connected equipment, set to VIDEO 1, 2, 3, 4, 5 or 6. ❑ Try another channel. It could be station trouble.
Remote control does not operate	❑ Batteries could be weak. Replace the batteries. ❑ Press TV (FUNCTION) when operating your TV. ❑ Make sure the TV's power cord is connected securely to the wall outlet. ❑ Locate the TV at least 3-4 feet away from fluorescent lights. ❑ Check the orientation of the batteries.
Dark, poor or no picture (screen lit), good sound	❑ Adjust the Picture setting in the Video menu (see page 26). ❑ Adjust the Brightness setting in the Video menu (see page 26). ❑ Check antenna / cable connections.
Good picture, no sound	❑ Press MUTING so that "MUTING" disappears from the screen (see page 40). ❑ Make sure Speaker is set to ON in the Audio menu (see page 28).
Cannot receive upper channels (UHF) when using an antenna	❑ Change Cable to OFF (see page 30). ❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30).
No color	❑ Adjust the Color settings in the Video menu (see page 26).
Only snow and noise appear on the screen	❑ Check the antenna / cable connections. ❑ Make sure the channel is broadcasting programs. ❑ Press ANT to change the input mode (see page 40).
Dotted lines or stripes	❑ Adjust the antenna. ❑ Move the TV away from noise sources such as cars, neon signs, or hair-dryers.
TV is fixed to one channel	❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30). ❑ Check your Channel Fix settings (see page 30).
Double images or ghosts	❑ Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).
Cannot operate menu	❑ If the item you want to choose appears in gray, you cannot select it.
Cannot receive any channels when using cable TV	❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30). ❑ Check your cable settings. ❑ Make sure Cable is set to ON in the Channel menu (see page 30).

Problem	Possible Remedies
Cannot gain enough volume when using a cable box	❑ Increase the volume of the cable box using the cable box's remote control. Then press TV (FUNCTION) and adjust the TV's volume.
Cannot receive channels	❑ Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 30).
Unable to select a channel	❑ Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 30).
Lost password	❑ In the password screen (see page 31), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.

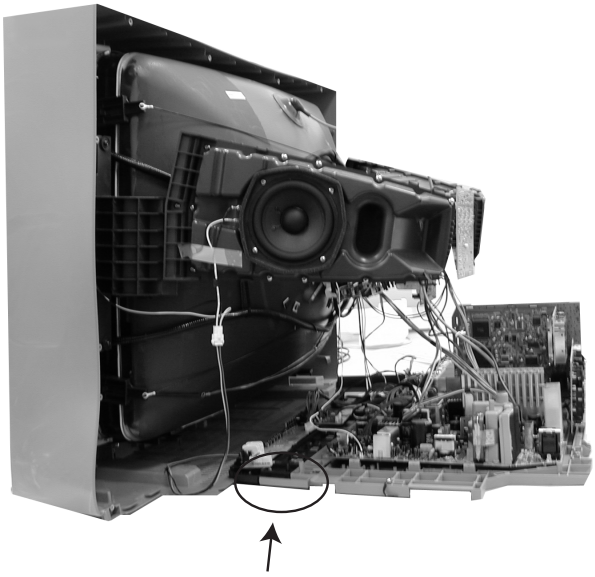
If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (U.S. residents only) or (416) 499-SONY (7669) (Canadian residents only).

SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

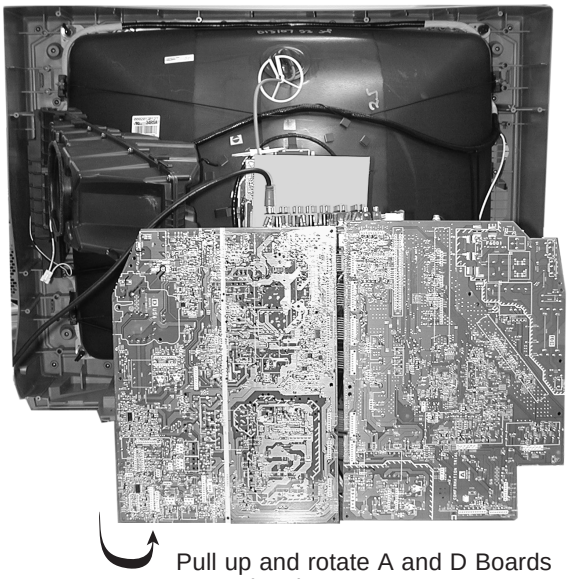
Remove +BVTP 4x16 screws from areas indicated with a circle.

2-2. CHASSIS ASSEMBLY REMOVAL



Lift lever up on right and left sides of chassis bracket and pull chassis assembly gently away from bezel.

2-3. SERVICE POSITION

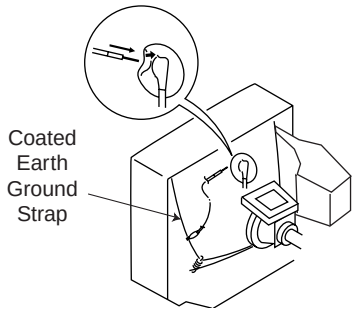


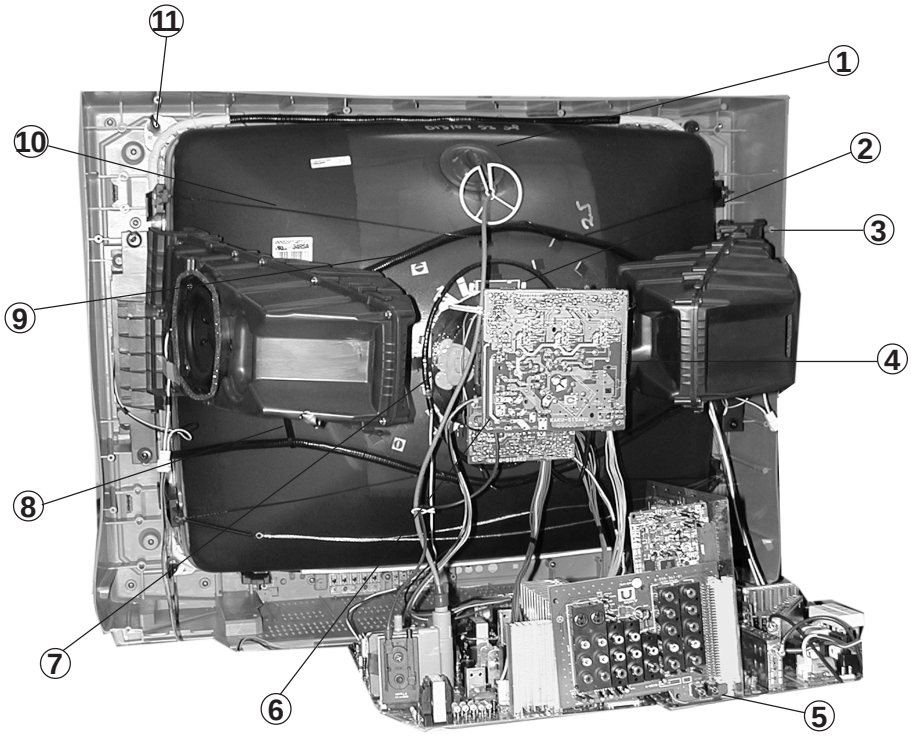
Pull up and rotate A and D Boards to service the set.

2-4. PICTURE TUBE REMOVAL

WARNING:
BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT ***before*** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.





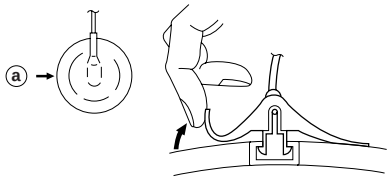
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove speaker assemblies.
4. Remove the C Board from the CRT.
5. Remove the chassis assembly.
6. Loosen the neck assembly fixing screw and remove.
7. Loosen the deflection yoke fixing screw and remove.
8. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
9. Remove the degaussing coils.
10. Remove the CRT grounding strap and spring tension devices.
11. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

ANODE CAP REMOVAL

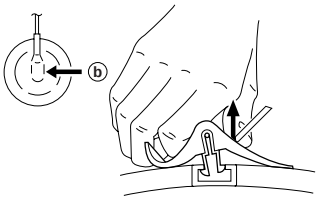
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electrical shock, discharge the CRT **before** attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield, or carbon painted on the CRT.

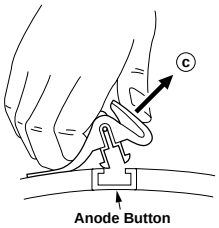
REMOVAL PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by arrow ⓐ.



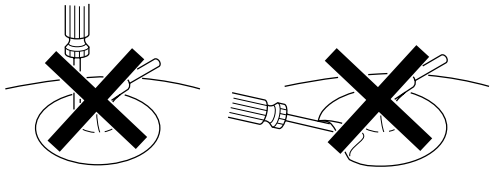
② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow ⓑ.



③ When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow ⓒ.

HOW TO HANDLE AN ANODE CAP

① Do not use sharp objects which may cause damage to the surface of the anode cap.

② To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.

③ Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.